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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/767,842	01/30/2004	Yasuyuki Higashiura	040033	4101
23850 7590 07/13/2007 KRATZ, QUINTOS & HANSON, LLP			EXAMINER	
1420 K Street, N.W. Suite 400 WASHINGTON, DC 20005			KIM, JUNG W	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)		
Office Action Summary		10/767,842	HIGASHIURA ET AL.		
		Examiner	Art Unit		
		Jung Kim	2132		
Period fo	The MAILING DATE of this communication app r Reply	pears on the cover sheet	with the correspondence address		
WHIC - Exter after - If NO - Failui Any r	DRIENED STATUTORY PERIOD FOR REPL HEVER IS LONGER, FROM THE MAILING D store of time may be available under the provisions of 37 CFR 1.1 SIX (s) MONTHS from the mailing date of this communication. SIX (s) MONTHS from the mailing date of this communication. SIX (s) MONTHS from the mailing date of this communication. The store of the store of t	ATE OF THIS COMMUN 136(a). In no event, however, may will apply and will expire SIX (6) Mi a. cause the application to become	IICATION. a reply be timely filed DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).		
Status					
2a)	Responsive to communication(s) filed on	s action is non-final. nce except for formal ma			
Dispositi	on of Claims				
5) □ 6) ⊠ 7) □ 8) □ Applicati	Claim(s) 1-21 is/are pending in the application 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) 1-21 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/con Papers The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the	wn from consideration. or election requirement. er. epted or b) □ objected t			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
12)⊠ a)(Inder 35 U.S.C. § 119 Acknowledgment is made of a claim for foreign All b Some * c None of	ts have been received. ts have been received in ority documents have been u (PCT Rule 17.2(a)).	Application No In received in this National Stage		
2) Notice	I(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date <u>see enclosed</u> .	Paper N	v Summary (PTO-413) o(s)/Mail Date Informal Patent Application		

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DETAILED ACTION

Claims 1-21 are pending.

Information Disclosure Statement

 The IDS submitted on 1/30/04 have been considered. An initialed copy is enclosed.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 3-5, 7-10, 12, 14, 15 and 18-21 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention
- 5. Claims 3-5 recite the limitation "attaching the public key-based electronic signature created at access to the electronic signature" or "attaching the public key-based electronic signature created at access to the electronic data." The claims appear to be defining a second public key-based electronic signature separate from the electronic signature defined in the independent claims, however there is insufficient antecedent basis for the limitation.
- Claims 3-5, 12, 14 and 15 recite the limitation "said electronic signature."
 However, the claims appear to define more than one electronic signature.

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 Claims 7-10 and 18-21 recite the limitations "said public key certificate" or "the certificate." There is insufficient antecedent basis for these limitations in the claims.

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filled in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filled in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 53(1a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- Claims 1-5 are rejected under 35 U.S.C. 102(e) as being anticipated by Bacha et al. USPN 6,950,943 (hereinafter Bacha).
- 10. As per claims 1-5, Bacha discloses an electronic data storage system comprising:
 - a. a file device for storing at least electronic data (fig. 2, reference no. 204);
 and
 - b. a data processing unit which generates check codes for detecting falsification respectively for said electronic data and a public key-based electronic signature using a secret encryption method and/or an encryption key when the electronic data is registered (Col. 5:60-65; 6:12-15; 6:41-45; 7:1-3), stores said

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electronic data, said public key-based electronic signature, and said respective check codes (7:9-12), respectively verifies the validity of said stored electronic data and said electronic signature using said check codes attached the stored electronic data and said electronic signature when said electronic data is output, and then accesses said electronic data and said electronic signature; (7:12-25; 8:15-54)

- c. wherein said data processing unit outputs said electronic data with attaching the public key-based electronic signature created at access to the electronic signature at registration to be accessed after verifying the validity of said electronic data and said electronic signature (8:37-39).
- 11. As per claims 11-15, they are claims corresponding to claims 1-5, and they do not teach or define above the information claimed in claims 1-5. Therefore, claims 11-15 are rejected as being anticipated by Bacha for the same reasons set forth in the rejections of claims 1-5.
- Claims 1-5 are rejected under 35 USC 102(b) as being anticipated by Nakahara
 Japanese patent application publication no. 2000-059353 (hereinafter Nakahara).
- 13. As per claims 1-5, Nakahara discloses a file device for storing at least electronic data; and a data processing unit which generates check codes for detecting falsification respectively for said electronic data and a public key-based electronic signature using a

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secret encryption method and/or an encryption key when the electronic data is registered, stores said electronic data, said public key-based electronic signature, and said respective check codes, respectively verifies the validity of said stored electronic data and said electronic signature using said check codes attached the stored electronic data and said electronic signature when said electronic data is output, and then accesses said electronic data and said electronic signature; wherein said data processing unit outputs said electronic data with attaching the public key-based electronic signature created at access to the electronic signature at registration to be accessed after verifying the validity of said electronic data and said electronic signature (Abstract: "Solution").

14. As per claims 11-15, they are claims corresponding to claims 1-5, and they do not teach or define above the information claimed in claims 1-5. Therefore, claims 11-15 are rejected as being anticipated by Nakahara for the same reasons set forth in the rejections of claims 1-5.

Claim Rejections - 35 USC § 103

15. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 6-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over
 Bacha in view of Bisbee et al. USPN 5,748,738 (hereinafter Bisbee).

17. As per claims 6-10, the rejections of claims 1-5 under 35 USC 102(e) as being anticipated by Bacha are incorporated herein. Bacha does not expressly disclose, wherein said data processing unit stores a certificate of the public key with which said electronic signature was created, simultaneously along with said electronic signature. when said electronic signature is created; wherein said data processing unit stores or outputs the expiration information of said public key certificate simultaneously; wherein said data processing unit stores the certificate of the public key with which said electronic signature is created, simultaneously along with said electronic signature, when said electronic signature is created; wherein said data processing unit stores or outputs the expiration information of said public key certificate simultaneously: wherein said data processing unit creates a pair of said public key and said secret key according to the request for key creation, issues the request of issuing said public key certificate to a CA office, acquires said public key certificate, and stores said acquired public key certificate in said file device. Bisbee discloses a system and method for electronic storage of authenticated documents, wherein a Certificate authority issues a public key certificate to various subscribers to generate public key signatures, wherein the certificates are in accordance with X.509, wherein the certificates include an expiration period field to indicate the expiration of the certificate; wherein a first digital signature is generated from an electronic document using a first private key from a first certificate,

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and the first digital signature and first certificate are attached to the electronic document; whereupon a second digital signature is generated from the electronic document using a second private key from a second certificate, and the second digital signature and second certificate are attached to the electronic document then stored in an Authentication Center once the first digital signature is validated. (5:15-55; 7:15-22; 9:27-10:7: 10:50-64) It would be obvious to one of ordinary skill in the art at the time the invention was made for the invention of Bacha to include the features wherein said data processing unit stores a certificate of the public key with which said electronic signature was created, simultaneously along with said electronic signature, when said electronic signature is created; wherein said data processing unit stores or outputs the expiration information of said public key certificate simultaneously; wherein said data processing unit stores the certificate of the public key with which said electronic signature is created, simultaneously along with said electronic signature, when said electronic signature is created; wherein said data processing unit stores or outputs the expiration information of said public key certificate simultaneously; wherein said data processing unit creates a pair of said public key and said secret key according to the request for key creation, issues the request of issuing said public key certificate to a CA office, acquires said public key certificate, and stores said acquired public key certificate in said file device. One would be motivated to do so to provide simple and efficient means to provide the certified public key used to verify the public key signature of the electronic document as known to one of ordinary skill in the art and as taught by Bisbee. Col. 2:64-3:11. The aforementioned cover the limitations of claims 6-10.

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- 18. As per claims 16-21, they are claims corresponding to claims 6-10, and they do not teach or define above the information claimed in claims 6-10. Therefore, claims 16-21 are rejected as being unpatentable over Bacha in view of Bisbee for the same reasons set forth in the rejections of claims 6-10.
- Claims 6-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakahara in view of Bisbee et al. USPN 5,748,738 (hereinafter Bisbee).
- 20. As per claims 6-10, the rejections of claims 1-5 under 35 USC 102(b) as being anticipated by Nakahara are incorporated herein. Nakahara does not expressly disclose, wherein said data processing unit stores a certificate of the public key with which said electronic signature was created, simultaneously along with said electronic signature, when said electronic signature is created; wherein said data processing unit stores or outputs the expiration information of said public key certificate simultaneously; wherein said data processing unit stores the certificate of the public key with which said electronic signature is created, simultaneously along with said electronic signature, when said electronic signature is created; wherein said data processing unit stores or outputs the expiration information of said public key certificate simultaneously; wherein said data processing unit creates a pair of said public key and said secret key according to the request for key creation, issues the request of issuing said public key certificate to a CA office, acquires said public key certificate, and stores said acquired public key

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certificate in said file device. Bisbee discloses a system and method for electronic storage of authenticated documents, wherein a Certificate authority issues a public key certificate to various subscribers to generate public key signatures, wherein the certificates are in accordance with X.509, wherein the certificates include an expiration period field to indicate the expiration of the certificate; wherein a first digital signature is generated from an electronic document using a first private key from a first certificate, and the first digital signature and first certificate are attached to the electronic document; whereupon a second digital signature is generated from the electronic document using a second private key from a second certificate, and the second digital signature and second certificate are attached to the electronic document then stored in an Authentication Center once the first digital signature is validated. (Col. 5:15-55; 7:15-22: 9:27-10:7: 10:50-64) It would be obvious to one of ordinary skill in the art at the time the invention was made for the invention of Nakahara to include the features wherein said data processing unit stores a certificate of the public key with which said electronic signature was created, simultaneously along with said electronic signature, when said electronic signature is created; wherein said data processing unit stores or outputs the expiration information of said public key certificate simultaneously; wherein said data processing unit stores the certificate of the public key with which said electronic signature is created, simultaneously along with said electronic signature, when said electronic signature is created; wherein said data processing unit stores or outputs the expiration information of said public key certificate simultaneously; wherein said data processing unit creates a pair of said public key and said secret key according to the

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request for key creation, issues the request of issuing said public key certificate to a CA office, acquires said public key certificate, and stores said acquired public key certificate in said file device. One would be motivated to do so to provide simple and efficient means to provide the certified public key used to verify the public key signature of the electronic document as known to one of ordinary skill in the art and as taught by Bisbee.

Col. 2:64-3:11. The aforementioned cover the limitations of claims 6-10.

21. As per claims 16-21, they are claims corresponding to claims 6-10, and they do not teach or define above the information claimed in claims 6-10. Therefore, claims 16-21 are rejected as being unpatentable over Nakahara in view of Bisbee for the same reasons set forth in the rejections of claims 6-10.

Communications Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jung W. Kim whose telephone number is 571-272-3804. The examiner can normally be reached on M-F 9:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on 571-272-3799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jung Kim Examiner AU 2132 July 6, 2007